Appl. No. 09/646,640
Amdt. dated Dec. 14, 2004
Reply to Office Action of July 14, 2004

Amendments to the Specification:

Please replace the title of the application and on the specification on Page 1, line 1 with:

METHOD ~~FOR DATA SECUREMENT USING~~ TO PREVENT POWER
DISSIPATION ATTACKS ON A CRYPTOGRAPHIC ALGORITHM BY
IMPLEMENTING A RANDOM TRANSFORMATION STEP

Please replace the paragraph on Page 4, line 26 that begins "Other characteristics and advantages" with:

Other characteristics and advantages of the invention will emerge through the reading of the following description of a particular non-limiting ~~embodiment~~embodiments of the invention, in connection with the ~~single~~ attached ~~figure~~figures, each illustrating in the form of a block diagram the execution of the method according to ~~this~~ an embodiment of the invention.

Please insert a new paragraph on Page 6, after line 17, as follows:

Figure 2 is a block diagram illustrating an alternative embodiment in which the randomly transformed data element is a message block. Figure 3 is a block diagram illustrating an alternative embodiment in which the randomly transformed data element is a message block associated with a key by logical operator of the exclusive-OR type.

Please insert a new paragraph on Page 6, after line 28, as follows:

Figure 4 is a block diagram illustrating an embodiment in which the random transformation step is a step that precedes the group of operations (270) executed repeatedly and in which the inverse transformation step follow the group of repeated operations (270).

- 2 -